APPENDIX D

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$Grevision
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                                                                                                                                use Win32::OLE;
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                                                                                                                                                                                                      # 981020AE: 0.5
# 981204AE: 0.9
981204AE: 1.5
98121AE: 1.5
981222AE: 2.3.1
981223AE: 2.4.1
981223AE: 2.5.2
# 981225AE: 2.5.2
# 981225AE: 2.5.2
# 990106AE: 2.6.5
990106AE: 2.6.5
990201ae: 3.0
990201ae: 3.0.1
990203ae: 3.0.1
# 990203ae: 3.1.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROGRAM REQUIRES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         program produces diagnostic and order-entry bound output files and logs outcomes of all ruleset evaluations leading preparation of those output files, which include:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 program accepts a raw email stream then uses email body preprocessing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RELEASE HISTORY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PURPOSE DISCUSSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               procorder.pl (c) 1998,1999 E-Dialog, Inc. All Rights Reserved
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EXC_DETAIL_<...>
EXC_BODY_<...>
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messageBodyIndicateBuyAll.cf
messageBodyPreProcRules.cf
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <$ARGV[1]>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mailingDBLayout.cf
                                   4;
'3.1.2';
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                                                                                            ENV
                                                                                                                                                                    INCL
                                                                                                                                                                                                update SHIPPING_ADDRESS fields to reflect presence of code review/dox; update cf to require MAILINGID standardize on LOG ID for use in address change add support for separate billing, shipping addresses add record-recovery via ADO -> mailing database lookup: record-update ADO -> mailing database fix leading digits bug in getDateTimeStamp ftn fix MDB query bugs; introduce detection of SELECT && UF fix address3 bug; provide regression compatibility for throw .noTok as a HARD_EXC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      first usage: to extract carollO order reports upgrade to handle caroll2, multiple item selections improve flagging adapt to extract IDEAS@work add/changes fix bugs in EXC_BODY reporting / enhance it
                                                                                                                                                                                                                                                                                                                                                                                                fix bugs in EXC_BODY reporting / enhance it add cfPATH support cfPath logging; fix synonymn (SUBJECT TOKEN) lookup <trailing reorder reporting fields reported reporting fields
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             summary order report file (designed for data entry (companion) summary exception report (same format
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extraction rules - tailored per campaign in ./cf/ - to co

    field mappings for a campaign's master mailing table
    DSNs, field mappings, critical rule designations, order-designation
    rulesets for indicating ADDRESS CHANGES
    rulesets for indicating BUY ALL state

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                                                                                                                                                                                                                       ion of SELECT && UPDATE SUCCESS;
compatibility for /ADDCHANGE
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                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                S diagnostic fields
                                                                                                                                                                                                                                            verify decision-tree
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               annotations to
                                                                                                                                                                                                                                            based UPDATES
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if(scalar(@ARGV)
Change]\n"; }

\$GrequiredARG)

{ die "(\$Grevision) Usage:

procorder.pl

[username] [reportname]

[cfPATH <campaignMnemonic>] [<buyToken> | /multi | /add

SARGY[0];

\$Guser

F) Development\PRJ\PRJ_hbsp_extractOrder-WORKING\procOrder.pl

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7 $GreportFile
8 $GcfPath
9 $Gsubj_buyToken
0 $GexCReportFile
1 $GexCBODYReportFile
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SGPlatform
SGeventType
SbasePath
SGfieldDelimiter
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if($ARGV[4]
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$eventRequiresFUP
$GmultiItemOrderSwitch
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This is vital in the BODY field layout defn file
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ab_THIS_SUBJECT
ac_THIS_BODY_BOTTOM
ad_THIS_BODY_TOP
                                                                                                                                                                                                 AD_LINE

b_RID

c_THIS_SUBJECT

d_THIS_BODY_BOTTOM

e_THIS_BODY_TOP

ia_FUP_REQUIRED

ib_LOCATION_BUY_TOKEN

j_REVIEW_ACTION_TAKEN

za_SELECTED_ITEMS

zd_PRIORITY
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                                                                                                                                  ZY_SHIPPING_ADDRESS
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zp_SPECIAL_INSTRUCTIONS
                                                                                                                            ZZ_MDB_BILLING_ADDRESS
                                                                                                                                              ZX_BILLING_ADDRESS
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    CUSTNO
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SARGV[3]
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'EXC_BODY_'.$GreportFile;
'OUT_'.$GreportFile;
'EXC_DETAIL_'.$GreportFile;
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_e_$thisMailingID',
_e_($thisCustNo==-1 || $thisCustNo =
_e_($thisL1stID==-1)?"":$thisListID'
                                                                                                                                                                                                                            _e_$thisBodyTop',
_e_$eventRequiresFUP'
_e_$thisBuyStatus',
                                                                                                                                                                                                                                                      _e_$thisRecordID',
_e_$thisSubject',
_e_$thisBodyBottom',
                                                                                                                                                                                                                                                                                  _e_$thisLogKey'
<fill-in>'
                                                                                                                            _e_$results{\'r_bphone\'}',
_e_$thisBillingAddressBlock',
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_e_$thisMDBbillingAddressBlock'
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'.$thisLogKey."<<")',
aa_REVIEW_TYPE
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uy_LOCATION_BUY_TOKEN
v_SUBJECT
                                  c_dateStamp
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_e_$thisBuyStatus',
_e_$thisSubject',
_e_$thisLogKey',
_e_$guser.'/".$GfPath',
_e_&getDateStamp(\'wIN\',$LGDEBUG_FTN)',
_e_$thisRecordID',
_e_$GclientName',
_e_$eventType',
                                                                                                                                           _e_$thisFullNumberedBody',
                                                                                                                                                               _e_$EXCEPTION_TYPE',
_e_$eventRequiresFUP',
_e_("<<".$thisRecordID.">>")',
_e_("||".$thisFromAddress."||')'
_e_("||".$thisSubject."||\n=====
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_e_$EXCEPTION_TYPE',
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$ADD_CHANGE_ON
$Gsubj_buyToken
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                                                            unless($ADD_CHANGE_ON)
                                                                                                                        print
                                                                                                                                                            print "** Opening: $GbodyAddressChangeFileName...\n";
    @GAddressChangeIndicators
                                                                                                                                                                                                                            print "** Opening: $GbodyBuyAllFileName...\n";
    @GBuyAllIndicators
                                                                                                                                                                                                                                                                                                                                                                                      print "[procorder R.$Grevision] $MODE\n".($GDEBUG?"\n<DEBUG:</pre>
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if($GSubj_buyToken =~ /\/MULTI/)
if($GSubj_buyToken =~ /\/ADDCHANGE/)
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                                                                                                                    "** Opening: $GbodyDataLayoutFileName...\n";
print "** Opening: $GmailingDBLayoutFileName...\n";
%MDBLAYOUT = &HASHloadFieldMap($GmailingDBLayoutFileName,$LGDEBUG_FTN);
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$basePath.$relativePath.'messageBodyPreProcRules.cf';
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$basePath.$relativePath.'excDetailDBkeys.tab';
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$basePath.$relativePath.'reportFileDBkeys.tab';
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= 1; $MODE .=
                                                                                                     &HASHloadFieldMap($GbodyDataLayoutFileName,$LGDEBUG_FTN);
                                                                                                                                                                  &loadFile_SCALAR($GbodyAddressChangeFileName);
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   vent(\*FH_log, $eventType, $eventDesc, $Guser,
277 if (!open(FH_out, ">$GoutFile"))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 279
                                                                                                                                                              3 $excpcount
3 $warncount
4 $outrilecount
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ## flag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      print "\n\n** Status...\n\n";
print "USER:\t\t$Guser \n";
print "USER:\t\t$Guser \n";
print "CLIENT:\t\t$GclientName\n";
print "CFPATH:\t\t$GcfPath\n\n";
print "TOTAL RECORDS \t\t -> \"$LAYOUT{'orderProcessingDSN'}\": $totalRecords\n";
print "TOTAL RECORDS \t\t -> \"$LAYOUT{'thisMailing TABLE SOURCE \t -> \"$LAYOUT{'thisMailingDDCHANGE_ON) { print "MAILING TABLE SOURCE \t -> \"$LAYOUT{'thisMailingDDCHANGE_ON) { print "MAILING TABLE SOURCE \t -> \"$LAYOUT{'thisMailingDDCHANGE_ON) { print "No(Note: if this information is not correct, hit <CNTRL> - C to abort and control "\n(Note: if this information is not correct).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  seventType, $eventDesc, $Guser, $LGDEBUG_FTN);}
if (!open(FH_report, ">$GreportFile"))
FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);}
if (!open(FH_excReport, ">$GexcReportFile"))
If (!open(FH_excReport, ">$GexcBoDYReportFile"))
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Fount(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);}
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                                                                                                                                                                                                                                                                                                                                                                  %dupsMap =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     print "** Begin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $totalRecords
$GclientName
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $numberRequiredFields
                                                              $reportLineCount
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $eventType = '_x_INFO'; $eventDesc = "procOrder R.$Grevision START OK - USER: $Guser/$GcfPath CLIENT: $GclientName
rocessingDSN'} mdbDSN: $LAYOUT{'orderProcessingDSN'} -> $LAYOUT{'thisMailingTable'} ($totalRecords recs) BODYdefn:
*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      print "** Loading daily order data source: $LAYOUT{'orderProcessingDSN'}...\n";
@DB = &read_DSNtoAOH($LAYOUT{'orderProcessingDSN'},$LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if(!defined($LAYOUT{'orderProcessingDSN'})) { $LAYOUT{'orderProcessingDSN'} = $GDSN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       @fieldkeys
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ## open I/O
for $mainCount (0
                                                                                                                                  $reportFileCount
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ## startup OK event
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ##print "--debug--n"; foreach(@fieldKeys) { print "**"._."| n"; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     &checkDupsReturnMap(\@DB,$GDEBUG);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              processing...\n\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e-mail
   $#DB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              = scalar(@fieldkeys);
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$LAYOUT{'thisClientName'};
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&getFieldKeys(\%LAYOUT);
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$LGDEBUG_FIN);}
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                {$eventType =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        lingpsn'}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $eventDesc =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . $LAYOUT{'thisMailingTable'}\"\n\n";
<you have 5 seconds>)\n\n"; sleep 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "MAIN::Cannot open GreportFile: \[$GreportFile\]";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "MAIN::Cannot open GoutFile:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "MAIN::Cannot open GexceptionsFile:
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$GbodyDataLayoutFileName";
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$eventRequiresFUP
$RECORD_VALID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ## skip lines that are the quoted BODY unless they're the order form
## $BODYstartToken = 'HARVARD BUSINESS SCHOOL PUBLISHING';
## $BODYendToken = 'FIRST NAME\:';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   @bottomLines
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$thisSubject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ## get relevant fields, normalized, this record
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $thisShippingAddressBlock
$thisBillingAddressBlock
$thisMDBbillingAddressBlock
$thisFullNumberedBody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      @topLines
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$thisFromAddress
                                                                                                                                                                                                                                                                                                                                                                   || $line!~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for(scount = 0;
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$thisBodyBottom
$lastLineExcluded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $BODYendToken
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      push(@BODYlines,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BODYstartToken
                                                              if($startToken_on && $endToken_on) {    unless($line =~
.5, ('['.$count.'] |'.$line.'|'));} }
                                                                                                                                                                                 ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               unless(startToken_ON || sline =~ /^\>+/) {unless (sline !~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $thisFullNumberedBody
                                                                                                                                                                          ignore bottom lines if part of the original -> indicators:
                                                                                                                                                                                                                                                                                                                                                            if(!$startToken_ON && ($line =~ /$BODYstartToken/))
if(!$endToken_ON && ($line =~ /$BODYendToken/))
/\S+?/ || $line =~ /[\[\]]+/) {$thisBodyBottom .= ($line.$Gpipe)} }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         into
                                                                                                                                                                                                                                                                                       next;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(($line =~ /$BODYStartToken/) .. ($line =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $count
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $1) while (\frac{10}{10}) = \frac{10}{10} (\frac{10}{10}) (\frac{10}{10}) = \frac{10}{10} (\frac{10}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     discrete lines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <= $#BODYlines; $count++) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           = undef;
= undef;
= undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = $LAYOUT{'startDelimiter'};
= $LAYOUT{'endDelimiter'};
=~ $/[\t\n\r]//g;
=~ $/[\t\n\r]//g;
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undef;
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   s/[\t\r]/$Gspace/g;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              &normalizeSpacing(uc($DB[$mainCount]{'Subject'}));
~ s/[\t\r]/$Gspace/g;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       &normalizeSpacing(lc($DB[$mainCount]{'FromAddress'}));
~ s/[\t\r]/$GSpace/g;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = undef;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        $BODYlines[$count];
= ('['.$count."] \t".$line."\n");
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                                                                                                     /^\>+/ || $line!~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /$BODYendToken/)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /\S+?/) {$thisBodyTop .=
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{$endToken_ON =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ($line.$Gpipe)}; push(@topLines,('['.$count.']
                                                                                                                                                                                                                                                                                                                                                                                                          /[\[\]]+/) {$thisBodyBottom .= ($line.$Gpipe); push(@bo
                                                                                                                                                                                                                                                                                                                                                                                                          ($line.$Gnewline); unless($line =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |'.$line.'|')
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&logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
$eventType = 'INFO'; $excpCount++; $eventDesc = " \<".$thisRecordID."\>
\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H_log,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ## test to see if there is a cf file synonymn (**,++, etc)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ## log/print warning if cannot find FOOTER ID BLOCK: CUSTNO|LISTID|MAILINGID|DIALOGID || if bad match yields the same for CUSTNO|LISTID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $thisBodyTop
$thisBodyBottom
                                                                                       tType,
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 SeventDesc,
                                                                                   $LISTCID_EXCEPT_ON = 1;
$MAILINGID_EXCEPT_ON = 1;
$eventType = 'EX_ERR'; $excpCount++; $eventDesc =
$eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $eventType,
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$thisDialogID
$LISTCID_EXCEPT_ON
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if($thisBody !~ \\[\[([^|]*?)\\([^|]*?)\\|([^|]*?)\\!?([^|]*?)\]\]/) {
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$Guser,
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 if($thisMailingID == -1)
iGuser, $LGDEBUG_FTN);}
                                                                                                                                                                                                                                                                                                                                                                                                                   $eventType = 'INFO'; $excpCount++; $eventDesc = "
$LAYOUT{$thisSubjectMailingIDToken}"; &logEvent(\*fH_log,
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                                                                                                                                                                                                $thisMailingID
$thisDialogID
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if($thisMailingID == -1) {
                                                                                                                                                                                                                               SthisListID
                                                                                                                                                                                                                                                SthisCustNo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $LISTCID_EXCEPT_ON = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if($GDEBUG) { print "\n\n\n** DEBUG___THISBODY=".$thisBody."\n\n\n";}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 s/[\t\r],
s/[\t\r],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $RECORD_VALID=0;
$MAILINGID_EXCEPT_ON = 1;
$eventType = 'EX_ERR'; $excpCount++;
$eventDesc, $Guser, $LGDEBUG_FTN);
                                          log/print INFO if cannot
                                                                                                                                                                    ($thisCustNo
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                = 'INFO'; $eventDesc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          &subjectSynonymnLookup($thisSubject,\%LAYOUT);
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$element2 : -1;
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$eventType, $eventDesc,
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                \<".$thisRecordID."\>
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                                                                                                                                                                                                                                                                                                              $3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTEMPTING SUBJECT LINE MAILING ID RECOVERY >>>";
                                                                                                                                                                                                                                                                                                                                                                                                                    <<< MAILING ID RECOVERY SUCCESSFUL
$Guser, $LGDEBUG_FTN);</pre>
                                                                                                                                                                                                                                                                                                              element4=
                                                                                                           BAD MATCH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MAILING
                   NO MAILING ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ID RECOVERY WAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           absence
                                                                                                                                                                                                                                                                                                              $4\n";
                                                                                                           CUSTNO, LISTID";
                                                                                                                                                                                                                                                                                                                sleep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of.
                  MATCH"; &logEvent(\*FH_log,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           footer token
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NOT SUCCESSFUL"; &logEvent(\*F
                                                                                                           &logEvent(\*FH_log,
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          CASE; }
                                                                                                                                                                                                                                                                                                                 ## process body fields by key; keys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $buyTokenPosition = &detectBuyTokens($MULTI_BUY_ON,$Gsubj_buyToken,$thisSubject,$thisMailingID,$thisBodyTop,$thisBodyBottom,\%LAYOUT,\@topLines,\@bottomLines,$GDEBUG);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ## check for /multi || quoted BUY TOKEN (eg:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if($thisDialogID ==
$eventDesc, $Guser, $LGDEBUG_FTN);}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <".$thisRecordID."\>
                                                                                                                                                                                                                                                                                                                                          %results
$countFields
$nullCriticalFields
$address_adequate
                                                                                                                                                                                                                                      ## print "--DEBUG-- key = |$key| \n";
                                                                                                                                                                                                                                                                key = _{-};
                                                                                                                                                                                                                                                                                         foreach (@fieldKeys) {
                                                                                                                                                                                                                                                                                                                                                                                                           ## INNER LOOP ##
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $buyTokenPosition = 'none';
$thisItemsSelectedStack = undef;
@thisItemsSelected = undef;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unless($ADD_CHANGE_ON)
                                                 CASE:
                                                                                     $expectedMatch
                                                                                                                                                   *************************
                                                                                                                                                               $thisLayoutFieldName = uc($LAYOUT{$key});
$thisLayoutFieldName =~ s/\s+$//;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ## if match and MULTI_BUY_ON, prepare order items listing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ## check for no-match case and except
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ## check for buy tokens, eg: YES in SUBJECT, TOP, BOTTOM || letter items: ABC || A,B,C || A-C
                                                                         §noBracketsMatch
                                                                                                                         $MATCH_DATA_ON =
TRY_NO_BRAKETS_MATCH:
                        TRY_EXPECTED_MATCH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if($buyTokenPosition ne 'none' && $MULTI_BUY_ON) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if($buyTokenPosition eq 'none') { $eventRequiresFUP .= '.noTok' ; $FUPCount++; $eventType = 'ERR_FUP'; $warnCount++; SUBJECT, TOP, BOTTOM -> NO BUY TOKEN MATCH ($Gsubj_buyToken)"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $thisItemsSelectedStack = &extractDedupItemsSelectedStack(@thisItemsSelected);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -1) { $eventType
                                                                                                                                                                                                                                                                                                                    standard
                                                                          II II
                                                                        $thisLayoutFieldName.'\:.*?\[([^\[]+?)\]';
$thisLayoutFieldName.'\:.*?([^\012\015]+?)';
                                                                                                                                                                                                                                                                                                                 field names; values ==
if($thisBody =~
                       if($thisBody =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'INFO';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $eventDesc
/$noBracketsMatch/)
                        /$expectedMatch/)
                                                                                                                                                                                                                                                                                                                 this BODY's field names mapped thereon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  II
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{ $MATCH_DATA_ON =
                        $MATCH_DATA_ON =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DIALOG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ID MATCH"; &logEvent(\*FH_log, $eventType
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                        $matchElement =
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                        $RULE
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$LGDEBUG_FTN)
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                                                                                                                                                                                                                                                                                                                                                                                                        ## print "--debug--
                                                 $results{$key} = undef;
$eventType = 'EX_ERR'; $excpCount++; $eventDesc = " \<".$thisRecordID."\>
isLayoutFieldName\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                ## ALL MATCHES FAILED,
                                                                                                                                                                                                                                                                            GDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ## print "--DEBUG--
                                                                                                                                                                                                                                                                                             tDesc = " \<".$thisRecordID."\>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ## A MATCH WAS FOUND, THIS KEY ... push into results set
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                build shipping and billing address blocks
   * *
                                                                                                                              if(!$MATCH_DATA_ON) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if($MATCH_DATA_ON) {
 check to
                                                                                                                                                                                                                                                                                                                                                                                                          |$LAYOUT{'criticalFields'}| \n";sleep 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   result = |\{\text{sesults}\{\text{key}\}\}| \in [n]
                                                                                                                                                                   THIS KEY
                                                                                                                                                                                                                                                                                                                                                                      if (sey = /[slayout{'criticalFields'}] \ % sresults{sey} !~ /\s+?/ & sthiscustno < 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $countFields++;
$matchElement =~
$results{$key} =
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ## check for null critical fields: any absence here will throw exception, unless CUSTNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CASE:
see is unparsable field is a critical field fields -> from CF file: any absence here will throw exception
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     last CASE;
                                                                                                                                                                                                                                                                                             ast CASE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if($key =~ /u[a-z]_/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                f($key =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ij
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (sey = \ /[efgnop]\_/) { $thisShippingAddressBlock .= (length($results($key}) > 0)?($results($key}).$Gspace):';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if ($key = \ /[hijklmq]\_/) { $thisShippingAddressBlock .= (length($results{$key}) > 0)?($results{$key}.$spipe):''; } \\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ## construct SHIPPING ADDRESSBLOCK for report
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        s/[^\w\s\-\.\/\#\!\@]/$Gspace/g;
&normalizeSpacing($matchElement);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ($key =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        construct BILLING ADDRESSBLOCK for report
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ($key =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            } (/_[uv]/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /[hijklmq]\_/)  { sthisBillingAddressBlock .= (length($results{$key}) > 0)?($results{$key}.$Gpipe):'';
                                                                                                                                                                                                                                                                                              =~ /badad/)?'':'.badad'); $FUPCount++; $eventType = 'EX_FUP'; $excpCount++; $even
\[$thisLayoutFieldName\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $L
                                                                            STANDARD FIELD_NAME=FIELD_VALUE PAIR UNPARSABLE:
                                                                              \[$th
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                            ## catch thisBodyTop and thisBodyBottom blank yet address
if($RECORD_VALID && $thisBodyTop !~
                                                               if($dupsMap{$mainCount} =~
                                                                                                                                                                                                                                     ## throw INFO if less than number required
                                                                                                                                                                                                                                                                                                                                               Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ## throw EX_ LISTNO/CUSTNO error exception if address is not OK && !phone, depending on CID_LID_REQUIRED from cf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ###################
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tDesc = " \
$eventDesc,
                                                                                                                                               $eventType = 'INFO'; $eventDesc = " \<".$thisRecordID."\>
&logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 u
                                                                                               tag
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                                                                                                                                                                                                                                                                                                                                            \<".$thisRecordID."\>
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                                                                                                 duplicates for FUP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  " \<".$thisRecordID."\>
esc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                    if(($countFields < $numberRequiredFields) && $thisCustNo < 1)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                  if($LAYOUT{'MAILINGID_REQUIRED'}) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(!$LAYOUT{'CID_LID_REQUIRED'})
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if($LAYOUT{'CID_LID_REQUIRED'}) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EX_ MAILINGID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if($LISTCID_EXCEPT_ON && !($ADDRESS_ADEQUATE && $results{'r\_phone'} !~ /\S+?/)) {    $RECORD_VALID =
                                                                                                                                                                                                                                                                                                                                                                                                                if($MAILINGID_EXCEPT_ON)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if($LISTCID_EXCEPT_ON)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  exception if
                                                                                                                                                                                                                                                                                                                                            $RECORD_VALID = 0;
$eventRequiresFUP .= (($eventRequiresFUP
,> MAILING ID ABSENT WHEN CF CRITICAL";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $RECORD_VALID = 0;
$eventRequiresFUP .= (($eventRequiresFUP =~ /chkcLID/)?'':'.chkcLID'); $FUPcount++; $eventType = 'EX_FUP'; $excpCount++; $eventDes
."\> EITHER CID || LID ABSENT WHEN CF CRITICAL"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if ($key =~
                                                              /\#\#\#.+\#\#\/#/) { SeventRequiresFUP .= ((SeventRequiresFUP =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $RECORD_VALID=0; $ADDRESS_ADEQUATE = 0;
$eventRequiresFUP .= (($eventRequiresFUP =~ /
UNPARSABLE STANDARD FIELD_NAME=FIELD_VALUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $RECORD_VALID=0;
/\S+?/ && $thisBodyBottom !~ /\S+?/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /[$LAYOUT{'criticalFields'}]\_/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      says
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      it's required
                              still extracted adequately (eg happens when cut & paste responses between the body delimiters)
                                                                                                                                                                                                                                                                                                                                            =~ /chkmID/)?'':'.chkmID'); $FUPCount++; $eventType
&logEvent(\*FH_log, $eventType, $eventDesc, $Guser,
                                                                                                                                                                 (OVERALL) NOT ALL STANDARD FIELDS FOUND: $countFields ($numberRequiredFields)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /badAd/)?'':'.badAd'); $FUPCOUNT++; $eventType
PAIR IS CRITICAL: \[$thisLayoutFieldName\]"; 
                                                               /dupad/)?'':'.dupad'); $FUPcount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                               $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                           'EX_FUP'; $excpCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   e = 'EX_FUP'; $excpCount++;
&logEvent(\*FH_log, $event'
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                                                                                                                                                                                                                                               ue}.$Gspace):'';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ## foreach(keys(%recoveredResults)) { print "=debug== key = $_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $RECORD_RECOVERED = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         r,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $eventType = 'INFO'; $eventDesc = " \<".$thisRecordID."\> >>> BAD RECORD: ATTEMPTING RECOVERY-LOOKUP USING \"$thisFromAddress\", $LAYOUT{'thisMa
ilingDSN'} -> $LAYOUT{'thisMailingTable'}"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(!$RECORD_VALID && !$ADD_CHANGE_ON)
                                                                                                                                                                                                                                                                                  lue}.$Gpipe):''; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    II
=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bottom)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \<".$thisRecordID."\>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \<".$thisRecordID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    %recoveredResults = undef;
%recoveredResults = &querySELECT_DB(\%LAYOUT,'EMAIL',$thisFromAddress,$LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $record_valid = 0;
$eventType = 'ex_err'; $eventRequiresFUP .= '.chkBody' ; $FUPcount++; $excpCount++; $eventDesc = "
NOT FOUND WHEN EXPECTED"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if($recoveredResults{'_exit_'} ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if($recoveredResults{'_exit_'} < 1)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               last CASE;
                                                              last CASE;
                                                                                              if($thisMailingID !~
if($thisCustNo !~ /\s
                                                                                                                                                                              ## restore mailingID and CID, if blank
                                                                                                                                                                                                                                                                                                                                        ##
                                                                                                                                                                                                                                                                                                                                                                                                                                          ##
                                                                                                                                                                                                                                                                                                                                                                                                         foreach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RECORD_RECOVERED = 1;
                                                                                                                                                                                                                                                                                                                                     print "**DEBUG key = $key ____
                                                                                                                                                                                                                                                                                                                                                                                                                                       construct $thisMDBbillingAddress
                                                                                                                                                                                                                                                                                                                                                                                                      $key(sort(keys(%MDBLAYOUT))) {
                                                                                                                                                                                                                                                                                                       ij
                                                                                                                                                                                                                                                                                                                                                                       $value = $MDBLAYOUT{$key};
                                                                                                                                                                                                                                                                    ($key =~
                                                                                                                                                                                                                                                                                                      ($key =~
                                                                                              !~ /\S+?/ || $thisMailingID == /\S+?/ || $thisCustNo == -1)
                                                                                                                                                                                                                                                                                                   /[hijklmq]\_/)  { sthismobbillingAddressBlock .= (length(srecoveredResults(svalue)) > 0)?(srecoveredResults(svalue)) > 0)?
                                                                                                                                                                                                                                                                  /[efgnop]\_/) {    $thisMDBbillingAddressBlock .=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ٣
                                                                                                                                                                                                                                                                                                                                        value = $value \n"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .= (($eventRequiresFUP =~ /badMDB/)?'':'.badMDB') ; $FUPCount++; $excpCount++;
D ON \"$thisFromAddress\""; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       value =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $recoveredResults{$_} \n";
                                                                                                                                                $recoveredResults{'CID'}
                                                                                                $thisMailingID
$thisCustNo
                                                                                                                                                                                                                                                                  (length($recoveredResults{$value}) > 0)?($recoveredResults{$val
                                                                                                   11 II
                                                                                                                                                  current custno = |$thisCustNo|\n";
                                                                                                $recoveredResults{'ED_MAILINGID'};
$recoveredResults{'CID'}; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \<".$thisRecordID."\>
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$LGDEBUG_F
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                                                                                                                                                                                                                                                                                                                                                                                                                         "ED_MAILACTION", -1,$RECORD_RECOVERED,$LGDEBUG_FTN)) { $UPDATE_SUCCESSFUL=1; last CASE; };

"ED_MAILACTION", -1,$RECORD_RECOVERED,$LGDEBUG_FTN)) { $UPDATE_SUCCESSFUL=1; last CASE; };

LACTION", -1,$RECORD_RECOVERED,$LGDEBUG_FTN)) { $UPDATE_SUCCESSFUL=1; last CASE; };

MAILACTION", -1,$RECORD_RECOVERED,$LGDEBUG_FTN)) { $UPDATE_SUCCESSFUL=1; last CASE; };

MAILACTION", -1,$RECORD_RECOVERED,$LGDEBUG_FTN)) { $UPDATE_SUCCESSFUL=1; last CASE; };
                                                                                                                                                                                       Desc = " \<".$thisRecorn; &logEvent(\*FH_log,</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $ED_ORDER_VALUE = 1;
$EXCEPTION_TYPE = 'OK';
$UPDATE_SUCCESSFUL = 0;
$THIS_KEY_FIELD = undef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DY_EMPTY/INSPECT }'; last CASE; }
_FLD_NUL/INSPECT ->|'.$thisBillingAddressBlock =~ /\S+?/ && !$ADDRESS_ADEQUATE)
_FLD_NUL/INSPECT ->|'.$thisBillingAddressBlock.'|'; last CASE; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if($thisBillingAddressBlock !~ /\S+?/ && $thisBodyTop !~
DY_EMPTY/INSPECT }'; last CASE: }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if($thisBillingAddressBlock!~
VALID_ADD/INSPECT='; last case:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if(!$RECORD_VALID) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $THIS_KEY_FIELD_VALUE = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #### tag address block exceptions with diagnostic ques
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if($thisShippingAddressBlock !~ /\
if($thisMDBbillingAddressBlock !~ /\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $eventRequiresFUP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #### add
                                                                                                                                                                                                                = " /<".
                                                              if(!$RECORD_VALUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if($RECORD_VALID) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         empty flag where SHIPPING ADDRESS is returned
                                                                                                                                                                                                              $thisRecordID."\> (MANUAL UPDATE
   $eventType = 't
."\> TNVALTO
                                                                                                                                                                                                                                                                                               if(!$UPDATE_SUCCESSFUL) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          unless($ADD_CHANGE_ON) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $thisBillingAddressBlock = '=UNKNOWN_ERR/INSPECT=|'.$thisBillingAddressBlock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               = ($eventRequiresFUP !~ /\S+?/) ? '.inspect'
                                                                                                                                                                                          $eventType, $eventDesc, $Guser,
                                                                                                                                                                                                                                                  SRECORD_VALID = 0;
                                                              && !$UPDATE_SUCCESSFUL)
   'EX_ERR';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /\S+?/) { $thisShippingAddressBlock = ';
    /\S+?/) { $thisMDBbillingAddressBlock
   SeventRequiresFUP MAILING TABLE NOT
                                                                                                                                                                                         $eventrequiresFUP .= (
E REQUIRED) MAILING TAB
$GUSEr, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /\S+?/ && ($thisBodyTop =~
 .= (($eventRequiresFUP =~ /not
UPDATED"; &logEvent(\*FH_log,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               blank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SeventRequiresFUP;
                                                                                                                                                                                                              ,= (($eventRequiresFUP =~
TABLE UPDATE FAILED ON AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /\S+?/ && $thisBodyBottom !~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /\S+?/ || $thisBodyBottom
   /noUpMDB/)?'':'.noUpMDB');
oq. $eventType, $eventDesc,
                                                                                                                                                                                                                  AL
                                                                                                                                                                                                            /badupMDB/)?'':'.
L KEYS - LAST TRY
                                                                                                                                                                                                                  LAST TRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Į
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /\s+?/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /\s+?/))
                                                                                                                                                                                                          .badUpMDB') ;    $FUPCount++;    $excpCount++;    $event
Y: \"$THIS_KEY_FIELD ->    $THIS_KEY_FIELD_VALUE\"
$FUPcount++; $excpCount++;
$Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "CID"
                                                                                                                                                                                                                                                                                                                                                                                                                                                 "ED_LID", "ED_ORDER", $ED_ORDER_VALUE, "ED_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "EMAIL", "ED_ORDER", $ED_ORDER_VALUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ,"ED_ORDER",$ED_ORDER_VALUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $thisBillingAddressBlock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $thisBillingAddressBlock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $thisBillingAddressBlock =
                       $eventDesc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11
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. \$thisRecordID

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                                                      printf
printf
                                                                                                                                                      $datenow = &getDateStamp('win', $LGDEBUG_FTN);
                                                                                                                                                                                        ## print STDOUT exit state
                                                                                                                                                                                                                          print "\n";
                                                                                                                                                                                                                                                                                                                                                                                                &writeRecord(\*FH_excBoDYReport,$GfieldDelimiter,$thisBoDYlogKey=&getNextDBkey_return($GexceptionsBoDYDBkeysFileName,$LGDEBUG_FTN),\%GexceptionsBoDYFileRecord,'BoDY', $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                    &writeRecord(\*FH_excReport,$GfieldDelimiter,$thisKey=&getNextD8key_return($GexcReportD8keysFileName,$LGDE8UG_FTN),\%GreportFileRecord,'NO
RMAL',$LGDE8UG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #### Buy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RMAL', $LGDEBUG_FTN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &writerecord(\*FH_excBoDYReport,$GfieldDelimiter,$thisBoDYlogKey=&getNextDBkey_return($GexceptionsBoDYDBkeysFileName,$LGDEBUG_FTN);
              print " records written to REPORT FILE:
"\n%10d", $excReportFileCount;
print " records written to EXC_REPORT FI
"\n%10d", $outFileCount;
                                                                                                                                                                                                                                                                                                                                                                $exceptionsFileCount++; $excReportFileCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if(!$RECORD_VALID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if($RECORD_VALID) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unless($ADDRESS_CHANGE) { if($buyTokenPosition eq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        $outFileCount++;$reportFileCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tokens not found and not ADDRESS_CHANGE; move to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          @writerecord(\*FH_exc,$GfieldDelimiter,$thisKey=@getnextDBkey_return($GexceptionsDBkeysFilename,$LGDEBUG_FTN),\%GoutFilerecord,'EXTENDED',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if($eventRequiresFUP =~ /\S+?/) { $EXCEPTION_TYPE = 'SOFT-EXC';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ## include ALL BODYs in the EXC_BODY file for potential review
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &writeRecord(\*FH_report,$GfieldDelimiter,($thisKey=&getNextDBkey_return($GreportFileDBkeysFileName,$LGDEBUG_FTN)),\%GreportFileRecord,'NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ## write out files
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEXCEPTION_TYPE =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     @writeRecord(\*FH_out,$GfieldDelimiter,($thisKey=@getNextDBkey_return($GoutFileDBkeysFileName,$LGDEBUG_FTN)),\%GoutFileRecord,'EXTENDED'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $reportLineCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            update MAILING TABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'HARD-EXC';
                 EXC_REPORT FILE:
                                                  $GreportFile";
                                                                                                                    StotalRecords records processed by
                 $GexcReportFile";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EXC report
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'none') { $RECORD_VALID = 0; $ED_ORDER_VALUE =
                                                                                                                       $Guser/$GcfPath
                                                                                                                         for client: $GclientName **\n\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2;
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F:_Development\PRJ\PRJ_hbsp_extractOrder-WORKING\procOrder:pl Printed at 19:48 on 06 Feb 1999

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my $i
                                                                                                                                                                                                                                                              my($inRecord) = @_;
my($e!ementsIndex, $fieldsIndex, $rec, $buf, $field) =
my(@field) = undef;
my $space = ' ';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            print "\n\nLOGGING\n\n";
print "All rule failure events for all time logged in detail to: $GactivityLogFileName\n";
printf "\n%10d",$totalRecords;
print " BODYs for this session are keyed, categorized in: $GexcBODYReportFile, for review in an editor\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         print "records written to OUTPUT FILE (all fields): $GoutFile";
printf "\n%10d", $exceptionsFileCount;
print_"records written to EXCEPTIONS FILE (all fields): $GexceptionsFile";
                                                  @allFields = split(/$GfieldDelimiter/,$inRecord);
my $fieldsIndex = undef;
                                                                                                                             my @allFields = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 my $base = $singleElementArray[0];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sub alphaOrdered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         exit;
                                                                                                                                                                             $inRecord = uc($inRecord);
                                                                                                                                                                                                                                                                                                                                                                                                      sub canonicalize {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return $alpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for($i = 1; $i <= $#singleElementArray; $i++) {</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      my(@singleElementArray) =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               close(FH_out); close(FH_exc); close(FH_log); close(FH_report); close(FH_excReport);close(FH_excBODYReport);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $eventType = '_x_INFO'; $eventDesc = 'procorder R.$Grevision EXIT OK - USER: $Guser/$GcfPath CLIENT: $GclientName
ocessingDSN'} mdbDSN: $LAYOUT{'orderProcessingDSN'} -> $LAYOUT{'thisMailingTable'} ($totalRecords recs) BODYdefn:
FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
for($fieldsIndex=0; $fieldsIndex <=</pre>
                                                                                                                                                                                                                                     $dashEscape = $space.'_d_esc_'.$space
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  print "==debug=$i= base = |$base| ordBase= $ordBase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if($ordBase > $ordArr) { return $alpha; }
$base = $singleElementArray[$i];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $ordBase = ord($base); $ordArr = ord($singleElementArray[$i]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             00
  $#allFields; $fieldsIndex++) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       singleElementArray =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $singleElementArray[$i] ordArr =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   opDSN ($totalRecords): $LAYOUT{'orderPr
$GbodyDataLayoutFileName"; &logEvent(\*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $ordArr \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              &logEvent(\*
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                                                 chop($rec);
                                                                                                                                                                                                                                                                                                                                                     $rec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return $rec;
                          $rec =~
                                                                                                                                                                                                                                                                                         $postalCodeFieldPos)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LE_CASE; }
                                                                                         .
11
                                                                                                                         $field
                          s/$dashEscape/\-/g;
                                                                                                                                                      if($leaveUpper) { $buf =
                                                                                         ($field.$GfieldDelimiter);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          @field
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              į
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for($elementsIndex = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $field = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ($fieldsIndex != $emailFieldPos && $fieldsIndex != $fromAddressFieldPos)
                                                                                                                               ·,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = split($space,$allFields[$fieldsIndex]);
                                                                                                                                                                                                                                                              $leaveupper =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $leaveUpper = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONVERT_TITLE_CASE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  elsif ($fieldsIndex == $emailFieldPos || $fieldsIndex !=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $allFields[$fieldsIndex]
$allFields[$fieldsIndex]
$allFields[$fieldsIndex]
$allFields[$fieldsIndex]
                                                                                                                               ($buf.$space)
                                                                                                                                                                                                                                                                                      unless($fieldsIndex == $stateFieldPos && length($field[$elementsIndex])>5) { if($fieldsIndex ==
{ last CONVERT_TITLE_CASE; } }
                                                                                                                                                                                               if($fieldsIndex !=
                                                                                                                                                                                                                        $buf = lc($field[$elementsIndex]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if($fieldsIndex == $postalCodeFieldPos) { last CONVERT_TITLE_CASE; }
if($headerFields[$fieldsIndex] !~ /\w*IX\w*$/ && $field[$elementsIndex] =~ /^[^AEIOU\.][^AEIOU\.][^AEIOU\.]?$/) { last CONVERT_TIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                if($fieldsIndex == $firstNameFieldPos && ($field[$elementsIndex] =~ /^[A-Z][A-Z]$/ || $field[$elementsIndex] =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $elementsIndex
                                                                                                                                                         $field[$elementsIndex];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          =~ s/\s+$//;
=~ s/\\s+'/;
=~ s/[\"\\,\\\(\)]/$space/g;
=~ s/\s{2,}/$space/g;
                                                                                                                                                                                               $emailFieldPos && $fieldsIndex !=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          î
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $#field;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        $elementsIndex++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $fromAddressFieldPos) { $allFields[$fieldsIndex] =~
                                                                                                                                                                                               $fromAddressFieldPos)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        trailing space
leading space
extraneous chars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           more than one separating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  { last CONVERT_TITLE_CASE;
                                                                                                                                                                                              { $buf =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           space
                                                                                                                                                                                              ucfirst($buf); last CONVERT_TITLE_CASE;
                                                                                                                                                                                                                                                                                                    $stateFieldPos || $fieldsIndex
                                                                                                                                                                                                                                                                                                                                                                                                                                                  /^[A-z]\.?
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                             3 my(@rangeStack)
4 my(@singleStack)
5 my($countRangeMatches)
6 my($repeat)
7 my($match)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 my @mirrorDupsMap
4 @mirrorDupsMap
5 my $key
6 my $value
7 my @arr
8 my $number
                                                                                                          my($thisLine,$thisMailingID,$pos,$ptrLAYOUT,$GDEBUG) =
my($exit) = 0;
                                                                                                                                           sub checkMultiBuy_Extract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         my($ptrAOHDB,$GDEBUG)
my(@DB)
                                                                                     my(%LAYOUT)
                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   my %dupsMap
my $j
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ## prepare map of duplicates on FromAddress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sub checkDupsReturnMap
                                                                                                                                                                                                                        return %dupsMap
                                                                                                                                                                                                                                                                                                                                                                                                                                                               foreach $key(keys %dupsMap) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for $j
($replacementEscChar)
($preProcRemoveChar)
($elementsenarator)
                                                                                                                                                                                                                                                                                                                            $eventType,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (0 .. $#DB)
                                                                                                                                                                                                                                                                                                                                                                                 @arr
@arr
$number
                                                                                                                                                                                                                                                         #
                                                                                                                                                                                                                                                                                           ##
                                                                                                                                                                                                                                                                                                                                                                                                                             svalue = supsmap{skey};

next if(svalue !~ /\s+?/);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dupsMap{sj} =
                                                                                                                                                                                                                                                                                                                                                             if($number >
                                                                                                                                                                                                                                                       print "**
                                                                                                                                                                                                                                                                                       print $dupsMap{$key}."\n";
                                                                                                                                                                                                                                                                                                               $eventType = 'INFO'; $eventDesc = "DUPLICATE FromAd
$eventDesc, $Guser, $LGDEBUG_FTN);
$dupsMap{$key} = ('###'.$number.'### '.$dupsMap{$key});
                                                                                                                                                                                                                                                         key=".$key." *** value=".$dupsMap{$key}."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $DB[$j]{'FromAddress'}
                                                                                                                                                                                                                                                                                                                                                                                    11 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    undef;
                                                                                                                                                                                                                                                                                                                                                                                 undef;
grep /$value/; @mirrorDupsMap;
scalar(@arr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           @_;
@$ptrAOHDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          undef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    undef;
values(%dupsMap);
undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 undef
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  windef:
                                                                          %$ptrLAYOUT;
undef;
                                                                  undef;
                                                                                                                       <u>.</u>
                                                                                                                                                                                                                                                                                                                                       "DUPLICATE FromAddress ITEM DETECTED ON IMPORT & FLAGGED: ($number|$key|$value)"; &logEvent(\*FH_lo
                                                                                                                                                                                                                                                        _occurrences=".$number."\n";
```

F:_Development\PRJ\PRJ_hbsp_extractOrder-WORKING\procOrder.pl

```
my $thisPreExtractionLine
my @testSingleStack
my $maxASCII
                                                                                                                                                                          ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ##print "\n\n--debug--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         my $RULE = 0;
my $match = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          while($repeat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ## EXTRACTION LOOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                foreach(@GPreProcRules) { eval; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ## RUN RULESET FROM RULES CF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $thisLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ## PREPARE THE LINE FOR MATCHING
                                                                                                                                                                        BEGIN RULES TO SEE WHAT WE GOT ##
                                                                                                                               if(\$RULE > 0)
                                                                                                                                                                                                                            $thisCheckedMailingID = ($thisMailingID!=0) ? $thisMailingID : -1;
                                                                                                                                                                                                                                                     $thisLine =~ s/$match/$replacementEscChar/g;
                                                                                                                                                                                                                                                                              $repeat =
}
                                                                                                                                                    $PUSH =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MATCH_CASE: {
                                                   if(!&alphaOrdered(@arr)) {
                                                                      my $tempMatch = $match;
$tempMatch =~ s/\-//g;
@arr = split(//,$tempMatch);
                                                                                                                                                                                              ##print "\n- debug - ELEMENT CO
if($GDEBUG) { print "--debug--
                                                                                                                                                                                                                                                                                                                                                                                                  RANGE_CASE: {
                                                                                                         my(@arr) = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SINGLE_CASE: {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      maxASCII =
                                                                                                                                                                                                                                                                                                                                              if($thisLine =~ /
if($thisLine =~ /
## if($thisLine =
## if($thisLine =
                                                                                                                                                                                                                                                                                                                                                                                                                                              if($thisLine
if($thisLine
if($thisLine
                   ## print "-- debug
$PUSH = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $thisLine;
undef;
0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $maxASCII --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              uc($thisLine);
                                                                                                                                                                                                ELEMENT CONSIDERED with break = $rulE |$match| \n";
"--debug-- BEGIN RULES -- RANGE = |$LAYOUT{$thisCheckedMailingID}| from $thisCheckedMailingID \n"; }
                                                                                                                                                                                                                                                                                                                                                                   ~\%\z-\\]\ ~=
-\[z-\]\\\ ~=
                                                                                                                                                                                                                                                                                                                                                                                                                                              =~ /^([A-Z])$/)
=~ /[^A-Z]^\%\@\-]{1}{)
=~ /[^A-Z]^\%\@\-]{1}[^A-Z]^\%\@\-]*/)
                               REJECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    thisLine IS CURRENTLY | $thisLine! \n\n";
                                 ı
                              not alpha match |Smatch| in line |SthisPreExtractionLine| \n";
                                                                                                                                                                                                                                                                                                                                                      \^\%\@]{1}/)
]\-[a-z])[^a-z\^\%\@]{1}/)
)[^a-z\^\%][1}/)
                                                                                                                                                                                                                                                                                                                                                         Smatch
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                                                                                                                                                                                                                                                                                                                                                last MATCH_CASE;
last MATCH_CASE;
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last MATCH_CASE;
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foreach(@singleStack)
                                                                                                                                                                                                                                                                                                                                                                                                   ## consolidate extractions, pre report
                                                                                              ventDesc =
ventType, !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##
                                                                                                                                                                                                                                                                                                                   ## SPECIAL POST EXTRACTION CASE RULES
                                                                                                                                                                                                                                                                               my $FIND_BUY_ALL = 0;
                                                                                                                                                                                                                 ij
                                                                                                                                                                                                                                             for each (@GBuyAll Indicators) \{ s/[\n\r]//g; next if (\$\_! \sim /\s+?/); if (\$thisPreExtractionLine = ~ /\$\_/) \{ \$FIND\_BUY\_ALL = (\$\_!) \} 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if(PUSH \&\& RULE < 0 \&\& Smatch =~ /\S+?/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if($PUSH && $RULE > 0 && $match =~ /\S+?/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(defined($match) && $match !~ /[$LAYOUT{$thisCheckedMailingID}]/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * * *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #if($RULE > 0 && ord($arr[0]) <= $maxASCII)
                                                                                            my $t = '.vfyTok';

$eventType = 'wrN_FUP'; ($eventRequiresFUP !~ /$t/) ? $eventRequiresFUP .= $

" \<".$thisRecordID."\> checkMultiBuy_Extract :: AMBIGUOUS ALL-ITEM SELECTION DETECTED

$eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                ($FIND_BUY_ALL) {
                           push(@thisItemsSelected,"
                                                                                                                                                                                if($exit) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                        if($GDEBUG) { if(!defined($match)) {print "--debug--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          push(@rangeStack, ('<'.$RULE.'> |'.$match)); $exit =
$match =~ s/\-/ thru /g;
push(@rangeStack, $match);
$exit=1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ## print "--debug-- REJECT - not in RANGE = \$LAYOUT{$thisCheckedMailingID}| match |$match| in line |$thisPreExtractionLine|
if(ord($match)>$maxASCII) {$maxASCII = ord($match); }
$PUSH = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                print "-- debug -- REJECT - range case |$match| out
if(ord($match)>$maxASCII) {$maxASCII = ord($match);
$PUSH = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unless(ord($match) <= $maxASCII) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         push(@testSingleStack,$match);
                                                                                                                                                                                                                                                                                                                                                  { unless($_!~/\s+?/)
{ unless($_!~/\s+?/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       push(@singleStack, ('<'.$RULE.'> |'.$match));
push(@singleStack,$match);
$exit=1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if(ord($match)>$maxASCII) {$maxASCII = ord($match);
                             ALL ($thisMailingID) "); $exit=1;
                                                                                                                                                                                                                                                                                                                                                   { push(@thisItemsSelected,$_);
{ push(@thisItemsSelected,$_);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of alpha order with current stack!\n";
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                        match not defined! in line= |$thisPreExtractionLine|\n"; }}
                                                                                                                  $t : $eventrequiresFUP; $FUPcount++; $excpCount++;
} IN EXTRACTION LOCATION <$pos>"; &logEvent(\*FH_log,
                                                                                                                                                                                                                                                   1; } }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>\</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $eventType = 'wrn_FUP'; ($eventRequiresFUP !~ /$t/) ? $eventRequir
\<".$thisRecordID."\> checkMultiBuy_Extract :: AMBIGUOUS EXTRACTION WARNING
                                                                                                                                                                                  $eventType =
\<".$thisRecordID."\>
$Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             my $t = '.chkaC';
$eventType = 'wRN_FUP'; ($eventRequiresFUP !~ /
\<".$thisRecordID."\> checkMultiBuy_Extract :: POSSIBLE
:ntDesc, $Guser, $LGDEBUG_FTN);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   foreach(@GaddressChangeIndicators) { s/[\n\r]//g; next if($_!~
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if($thisPreExtractionLine =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  my $t = '.vfyTok';
$eventType = 'wRN_FUP'; ($eventRequiresFUP !~ /$
$thisRecordID."\> checkmultiBuy_Extract :: AMBIGUOUS
{oventDocc forcer $1 cderulc etn).
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*
= =
                                                                                                                             $LIKELY_PARSE_ERRORS
                                                                                                                                                                                                                                                             ($FIND_AI_ONLY) {
                                                                                                                                                                                                                                                                                                                                                                                                                          ($exit && scalar(@singleStack)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $FIND_QUESTION =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $FIND_ADD_CHANGE =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DETECT DIFFERENCE IN EXTRACTION STACK AND MAX EXTRACTION STACK
                                                                    ($LIKELY_PARSE_ERRORS) {
                                                                                                ($exit && $thisPreExtractionLine =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                        $FIND_AI_ONLY =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ($FIND_QUESTION) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ($FIND_ADD_CHANGE) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ($exit && (scalar(@singleStack) != scalar(@testSingleStack)) ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                     if(grep /(A)|(I)/, @singleStack) { $FIND_AI_ONLY = }
                                                                                                                                                                                                                                                                                                                                                                                 scalar(@singleStack);
scalar(@testSingleStack);
                                                                                                                                                                                                                               t = '.vfyTok';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      t = ' vfyTok';
                                                                                                                                                                                                                                                                                                                                                 debug --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                 ''wRN_FUP'; ($eventRequiresFUP !~/
checkmultiBuy_Extract :: AMBIGUOUS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /?\s/) { $FIND_QUESTION =
                                                                                                                                                                                                                                                                                                                                                     singleStackLen =
                                                                                                                                                                                                                                                                                                                                                                                                                                11
||
                                                                                                                                                                                                                                                                                                                                                                                                                               2
                                                                                              /[\[\]]+/) { $LIKELY_PARSE_ERRORS =
                                                                                                                                                                                                                                                                                                                                                                                                                               82
                                                                                                                                                                                                                                                                                                                                                                                                                               scalar(@testSingleStack)
                                                                                                                                                                                                                                                                                                                                                      ×
                                                                                                                                                                                                                                                                                                                                                     |
             /$t/) ? $eventrequiresFUP .= $t : $6
IS EXTRACTION WARNING: BRACKETS FOUND
                                                                                                                                                                                                    /$t/) ? $eventRequiresFUP .=
IS EXTRACTION WARNING: \"A\" (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /$t/) ? $eventRequiresFUP .=
ADD/CHANGE OR CARE REQUEST [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /$t/) ? $eventRequiresFUP .=
ADD/CHANGE REQUEST DETECTED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /$t/) ? $eventRequiresFUP .=
                                                                                                                                                                                                                                                                                                                                                      testSingleStackLen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /\S+?/); if($thisPreExtractionLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            resFUP .= $t: $eventRequiresFUP; $FUPcount++; $excpCount++;
/ INSPECT IN EXTRACTION LOCATION <$pos>"; &logEvent(\*FH_log,
                                                                                                                                                                                                                                                                                                                                                        H
                                                                                                  ;;
                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bt : $eventRequiresFUP; $FUPCount++;
DETECTED IN EXTRACTION LOCATION <$pos>";
                                                                                                                                                                                                     = $t : $eventRequiresFUP
or \"I\" ONLY DETECTED";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ħ¥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : $eventRequiresFUP ; $FUPCount++; $excpCount++;
EXTRACTION LOCATION <$pos>"; &logEvent(\*FH_log, $
             $eventRequiresFUP; $FUPcount++; 
O IN EXTRACTION LOCATION <$pos>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ||
|}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /$_/) { $FIND_ADD_CHANGE
                                                                                                                                                                                                       ; $FUPcount++; $excpCount++; $eventDesc
&logEvent(\*FH_log, $eventType, $eventD
            $excpCount++; $eventDesc
; &logEvent(\*FH_log, $ev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $excpCount++; $eventDesc
; &logEvent(\*FH_log, $ev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         II
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $eventDesc
$eventType,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $eventType
```

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```
## check @topLines
## print "\n\n======debug--
                                                                                                                                                                                    ## print "--debug-- thisBuyStatus= |$thisBuyStatus| \n";
                                                                                                                                                                                                                                                    ##
                                                                                                                                                                                                                                                                                            ##
## &checkMultiBuy_Extract returns success on a good match/extraction;
## @thisItemsSelected is created/populated at this time as well
##
                                                                                                                                                                                                                                                                                                                                              FIND_BUY_TOKENS:
                                                                                                                                                                                                                                                                                                                                                                                         my $exit = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                my($MULTI_BUY_ON,$Gsubj_buyToken,$thisSubject,$thisMailingID,$thisBodyTop,$thisBodyBottom,$ptrHASHLAYOUT,$ptrSCALARtopLines,$ptrSCALARbottomLines,$GDEBUG)
= @_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sub detectBuyTokens
                                                                                                                                                                                                                                                                       ## check $thisSubject
                                                                                                                                                                                                                                                                                                                                                                      ##
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return $exit;
                                                                                                                                                                                                                                                print "\n\n=======debug-- SUBJECT = |\$thisSubject| \n";
                                                                                                                                                                                                                                                                                                                                                                  print "--debug--
                                                                                                                                if($MULTI_BUY_ON) {
                                                                                                                                                                                                                             if(!$MULTI_BUY_ON && $thisSubject =~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     last FIND_BUY_TOKENS;
                                                          last FIND_BUY_TOKENS;
}
                                                                                                            if(&checkMultiBuy_Extract($thisSubject,$thisMailingID,' s ',\%LAYOUT,$GDEBUG)) {
                                                                                                                                                                                                       $buyTokenPosition = ' S '; $thisBuyStatus =
                                                                                                                                                                                                                                                                                                                                                                   buyToken= |$Gsubj_buyToken|\n";
                                                                                       $buyTokenPosition = ' S '; $thisBuyStatus =
                                                                                                                                                                                                                                                                                                                                                                                                             undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      %$ptrHASHLAYOUT;
@$ptrSCALARtopLines;
@$ptrSCALARbottomLines;
      thisBodyTop = |$thisBodyTop| \n";
                                                                                                                                                                                                                             /$Gsubj_buyToken/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----\n";
                                                                                                                                                                                                        ('<'.$buyTokenPosition.'> |'.$thisSubject.'|');
                                                                                        '<'.$buyTokenPosition.'>';
```

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```
## check @bottomLines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ## print "--debug-- thisBuyStatus= |$thisBuyStatus| \n";
                                                                                                                                                                                                                                                                                                                                                                                                                            ## print "--debug-- thisBuyStatus= |$thisBuyStatus| \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ## print "\n\n=======debug-- thisBodyBottom = |\tthisBodyBottom| \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(!$MULTI_BUY_ON) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if(!$MULTI_BUY_ON) {
                                                                                                                                                                                 if($MULTI_BUY_ON) {
                                                                                                                                                                                                                                                      last FIND_BUY_TOKENS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if($MULTI_BUY_ON) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      last FIND_BUY_TOKENS;
}
                                                                                                                           if(&checkmultiBuy_Extract($thisBodyBottom,$thisMailingID,' B ',\%LAYOUT,$GDEBUG)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         foreach(@bottomLines) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(&checkmultiBuy_Extract($thisBodyTop,$thisMailingID,' T ',\%LAYOUT,$GDEBUG)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     last FIND_BUY_TOKENS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  foreach(@topLines) {
$buyTokenPosition = ' B ';
$thisBuyStatus = '<'.$buyTokenPosition.'> ';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if($thisBottomLine =~ /$Gsubj_buyToken/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if($thisTopLine =~ /$Gsubj_buyToken/) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $thisTopLine = $_;
                                                                               $exit =1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $thisBottomLine = $_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $buyTokenPosition = ' T ';
$thisBuyStatus = '<'.$buyTokenPosition.'> ';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exit = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $buyTokenPosition = ' T ';
$thisBuyStatus = '<'.$buyTokenPosition.'> '.$thisTopLine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $buyTokenPosition = ' B ';
$thisBuyStatus = '<'.$buyTokenPosition.'> '.$thisBottomLine;
```

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```
if ($Gplatform eq 'win') {
                                                                                                                                                                                                                                                                                                                                                                                                                                                    my($Gplatform,$LGDEBUG_FTN) = @_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # get standardized date stamp (UNIX, WINNT)
# returns a date stamp
                                                                                                                                                                                                                                                  if ($Gplatform ne 'win') { $val = `date '+%y%m%d%H%w%S-%a' ; }
else {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sub getDateStamp {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           my $thisItemsSelectedStack = undef;
my $thisItemsSelectedStackSeparator = ',';
my $i = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                my(@thisItemsSelected) = @_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $thisItemsSelectedStack =~ s/\,\s*$//;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sub extractDedupItemsSelectedStack {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ## print "--debug-- ==== $i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for($i = 0; $i <= $#thisItemsSelected; $i++) {</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return $buyTokenPosition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $thisItemsSelectedStack;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $thisItemsSelectedStack .= ($item.$thisItemsSelectedStackSeparator);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $item=&normalizeSpacing($item);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      next if($item !~ /\S+?/);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       my $item = $thisItemsSelected[$i]; # all items must be normalized!
                                                                                                                                                $val = `date /t`;
chop($val);
$val =~ /(\w+)\s+(\d+)\/(\d+)\/(\d{2})(\d{2})/;
$val = $5.$2.$3; $day = $1;
$GTIME = `echo '' | time`;
$GTIME =~ /\:\s*(\d{1,2})\:(\d{2})\:(\d{2})\.(\d{2})/;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           last FIND_BUY_TOKENS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ====== buyTokenPosition= |$buyTokenPosition|\n";
```

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```
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                         5 $LIDFieldPos
6 $MailingIDFieldPos
7 $firstNameFieldPos
8 $lastNameFieldPos
9 $IXFieldPos
9 $LYFieldPos
1 $stateFieldPos
2 $CountryFieldPos
3 $CountryFieldPos
4 $emailFieldPos
5 $CompanyFieldPos
6 $addressFieldPos
5 $ddressFieldPos
7 $departmentFieldPos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        my(@fieldkeys)
my($k)
                                                                                                                                                                                                                                                                                                           my(%HASHrecordTemplate) = %$ptrHASHrecordTemplate;
                                                                                                                                                                                                                                                                                                                                           my(\$ptrhashrecordTemplate) = @_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           my($ptrLayout) = @_;
my(%LAYOUT) = %$ptrLayout;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sub getFieldKeys {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if($LGDEBUG_FTN) { print "DEBUG__gdate=".$val."\n"; }
                                                                                                                                                                                                                                                          my @record
$salutationFieldPos
                                                                                                                                                                                                                                                                                                                                                                         sub getKeyPos_Outfile {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         shift @fieldKeys;
## $f = scalar(@fieldKeys); print "--debug-- scalarEndFtn=$f \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ##$f = scalar(@fieldKeys); print "--debug--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ## prepare and count required fields from body data layout for check against body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return $val;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          foreach $k(sort keys %LAYOUT) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                             return @fieldKeys;
             cityFieldPos
fromAddressFieldPos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if(k = /s+?/) { push(@fieldkeys,k); }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ## print "--debug-- k= |$k|\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            next if(k !\sim /^[a-z]{1,2}_/);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               my $leadingDigit = $1;
if (length($leadingDigit) == 1) { $leadingDigit =
    $val .= $leadingDigit.$2.$3.$4.'-'.$day;
                               H 11 II
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               elements
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               are not fieldnames but are other CF parameters (name \t value)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ('0'.$leadingDigit); }
```

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```
$/ = undef;
$startKeys =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              my $i
                                                                                                                                                                                                                                                                                                                                                         dus
OPEN_DB: if (!open(KEYS, "+< $keyFilt(\*FH_log, $eventType, $eventDesc,
                                                   if(! -s $keyFileName) {
                                                                                                                                                                                                                                           $LOCK_NB
                                                                                                                                                                                                                                                                                                                  my($keyFileName,
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f ($stateFieldPos =
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||
 "+< $keyFileName")) {$exit = 0; $e
$eventDesc, $Guser, $LGDEBUG_FTN);}
                                                       echo $startKeys >>
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(.*L\W+NAME.*)
(.*IX.*$/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \\\w\+F\\w\+NAME\/ was not found!\n";
\\\w\+L\\w\*NAME\/ was not found!\n";
\\\\w\*IX\\w\*NAME\/ was not found!\n"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (COUNTRY)|(CTRY)\/ was not found!\n"; }
(EMAIL)|(E-MAIL)|(INTERNET_ADDR)|(INTERNET_AD)|(INTERNETAD)\/
                      $eventDesc
                      ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     was not found!
                      "getNextDBkey_return::Cannot open:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $LIDFieldPos
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last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASE
                 \]"; &logEven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 found!\n
```

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flock(KEYS, \$LOCK_EX);

my(\$count) = <KEYS>;
\$nextKey = \$count+1;
seek(KEYS,0,\$POS_BOF);
print KEYS \$nextKey;

flock(KEYS, \$LOCK_UN);
close(KEYS);

return \$nextKey;

```
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1632
                                                                                                                                         my($fileName) = @_;
                                                                                                                                                                 sub loadFile_SCALAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           my(@fieldMapTemp) = <FH>;
my($key) = undef;
my($value) = undef;
my(%fieldMap) = undef;
                                                       my(@all) = undef;
                                                                               $/ = "\n";
                                                                                                    if (!open(FILE, "$filename")) {$eventType = 'FAIL'; $eventDesc = "loadArray::Cannot open filename: \[$filename\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);}
                                                                                                                                                                                                                                             return %fieldMap;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    close(FH);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $/ = "\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (!open(FH, "$fileName")) { $eventType = 'FAIL'; $eventDesc = "HASHloadFieldMap::Cannot open: \[$keyFileName \]"; &logEvent(\*FH_log, $eventType, $event Desc, $Guser, $LGDEBUG_FTN);}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   my(filename, floorbug_ftn) = 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sub HASHloadFieldMap {
                                                                                                                                                                                                                                                                                                                                                                                                                            foreach (@fieldMapTemp) {
                                                                                                                                                                                                                                                                                                                                                                              next if(($item =~
                                                                                                                                                                                                                                                                                                                                                                                                     my $item = $_;
                                                                                                                                                                                                                                                                                                     $fieldMap{$key} = $value;
                                                                                                                                                                                                                                                                                                                              value =  s/[\n\r]//g;
                                                                                                                                                                                                                                                                                                                                                    (\theta, \theta) = split(/[\t\,]/,\theta);
                                                                                                                                                                                                                                                                                                                                                                             /////) || ($item !~ /\S+?/)); # comments
```

while(<FILE>) {

my \$buf = \$_; next if(\$buf !~ /\S+?/ || \$buf =~ /^\/\//);

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push(@all, \$buf);

```
1661
1662
1663 # write (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1656
1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1640
1641
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1643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .659 if($eventType !~ /_x_/) {    print $eventType."\t".$eventDesc."\n";    ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 if($eventType eq 'ABORT') {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   my $dateNow = &getDateStamp('wIN',$LGDEBUG_FTN);
# print event to STDOUT
my(%LAYOUT) = %$ptrLAYOUT;
my $RS = undef;
my $Conn = undef;
                                                                                                   ##print "** DSN = $LAYOUT{'thisMailingDSN'} \n";
                                                                                                                                                my($ptrLAYOUT,$thisQueryKey, $thisQueryFieldName, $fieldName, $fieldValue, $fieldName1, $fieldValue1, $record_recovered, $LGDEBUG_FTN) = @_;
                                                                                                                                                                                                      sub queryUPDATE_DB {
                                                                                                                                                                                                                                                                                                                                                                                                                                dirty = s/s{2,}/space/g; dirty = s/s+s//; dirty = s/n/s+//; clean = sdirty;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 my($dirty) = @_-;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $foo = `mapisend -u administrator -p password -r aestes\@e-dialog.com -s "** $dateNow procOrder - Critical Error"
ype $eventDesc";
die "Error! Cannot log! ".$eventType."\t".$eventDesc."\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            my($FH,$eventType,$eventDesc,$Guser,$LGDEBUG_FTN) =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sub logEvent {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sub normalizeSpacing {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ĮN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return @all;
                                                                                                                                                                                                                                                                                                                                                                                 return $clean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $foo = `mapisend -u administrator -p password -r aestes\@e-dialog.com -s "** $dateNow procorder - Critical Error"
$eventType $eventDesc";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            event to activity log
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if($eventType eq 'FAIL') {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           &writeRecord(\*FH_log,$GfieldDelimiter,$thisLogKey=&getNextDBkey_return($GactivityLogKeysFileName,$LGDEBUG_FTN),\%GactivityLogRecord,'',$LGDEBUG_F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else { else = s/_x_//; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>ا</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -m "$Guser $GclientName $eventT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ⅎ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "$Guser $GclientName
```

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y \$Errors = undef;
y @fieldNames = undef;
y \$PID = -1;
y \$recCount = 0;

my \$Conn = undef;

construct/open DSN

5 5 5

\$EXIT = 1;

```
1745
                                                                                                                                  _ my($ptrLAYOUT,$thisQueryFieldName,$thisQueryKey,$LGDEBUG_FTN) =
                                                                                                                                                                                         sub querySELECT_DB
                                                                              ##print "** DSN = $LAYOUT{'thisMailingDSN'} \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $eventType = 'WRN_FUP'; $eventRequiresFUP
UT{'thisMailingDSN'}) queryUPDATE_DB :: Cannot create RS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ##%foo = %$RS;
##foreach(keys(%foo)) {    print "---key = $_
my(%LAYOUT) = %$ptrLAYOUT;
my $RS = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                               $eventType = 'INFO'; $eventDesc = " \<".$thisRecordID."\>
Event(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            # 100k
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    # Load data into recordset
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             my(%DB) = undef;
                                                                                                                                                                                                                                                                                                                                                                                             return $EXIT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  $Conn = new win32::OLE("ADODB.Connection");
$Conn->Open($LAYOUT{'thisMailingDSN'},"");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return $ĒXIT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if(!$RS) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $thisQuery = "UPDATE $mailingTable SET $fieldName =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     unless($RECORD_RECOVERED) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \$EXIT = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $RS = $Conn->Execute($thisQuery);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         see if update record exists, $thisQueryKey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $mailingTable = $LAYOUT{'thisMailingTable'};
%foo = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $Errors = $Conn->Errors();
print "Errors:\n";
foreach $error (keys %$Errors) {
    print $error->{Description}, "\n";
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             my $RECORD_EXISTS = 1;
%foo = &querySELECT_DB(\%LAYOUT,$thisQueryFieldName,$thisQueryKey,$LGDEBUG_FTN);
if($foo{'_exit_'} < 1) { $RECORD_EXISTS = 0; $EXIT = 0; return $EXIT; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $RECORD_EXISTS = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       value = $foo{$_} \n"; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .= (($eventRequiresFUP =~ /badMDB/)?'':'.badMDB'); $eventDesc = " \<".$thisRecordID."\>
\[$thisQuery\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \'$fieldvalue\',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ($LAYOUT{'thisMailingDSN'}) queryUPDATE_DB :: UPDATE SUCCESSFUL: \[$thisQuery\]"; &log
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $fieldName1 = \'$fieldValue1\'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WHERE $thisQueryFieldName = \'$thisQueryKey\'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ($LAYO
```

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my @fieldNames =
my \$PID = -1;
my \$reccount = 0;

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\$Conn = undef; \$Errors = undef; @fieldNames = undef;

```
if(!$RS->EOF) { $RESULT_FLAG = -1; }
$RS -> MOVEPTEVIOUS;
                                                                                                                                                                                                                                                                                                   while ( !$RS->EOF ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (($eventRequiresFUP =~ /badMDB/)?'':'.badMDB'); $FUPCOUNT++; $eventType = 'ERR_FUP'; $eventDesc = " \<".$thisRecordID."\> ($LAYOUT{'thisMailingD sn'}) querysELECT_DB :: Bad Lookup ($rESULT_FLAG): \[$thisQuery\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if($RESULT_FLAG < 1) {</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if($RS->EOF) { $RESULT_FLAG =
$RS -> MOVENEXT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         my $RESULT_FLAG = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for($i=0; $i < $RS->Fields->Count; $i++) { $fieldNames[$i] = $RS->Fields->Item($i)->Name; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    my $i = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $RS = $Conn->Execute($thisQuery);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        $thisQuery = "SELECT * FROM $mailingTable where $thisQueryFieldName = \'$thisQueryKey\'";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       my $mailingTable = $LAYOUT{'thisMailingTable'};
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               my(%DB) = undef;
$DB{'_exit_'} = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $Conn = new win32::OLE("ADODB.Connection");
$Conn->Open($LAYOUT{'thisMailingDSN'},"");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         my $Conn = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          $eventType = 'FAIL'; $eventDesc = " \<".$thisRecordID."\>
yent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if(!$RS) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        # Load data into recordset
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        # construct/open DSN
$Conn->Close;
                                                                                                                                                                                                                                                                                                                                                                                                     return
                                                                                                                                                                                                                                                                                                                                                                                                     %DB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $Errors = $Conn->Errors();
print "Errors:\n";
foreach $error (keys %$Err
                                                                                                                                                                                                                                             for($i=0; $i < $RS ->Fields->Count; $i++) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                              $DB{'_exit_'} =
                                                                                        $RS->MoveNext; $recCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $error (keys %Errors) {
print $error->{Description}, "\n";
                                                                                                                                                                                 $DB{$fieldNames[$i]}= uc($RS->Fields->Item($i)->value);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $RESULT_FLAG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ($LAYOUT{'thisMailingDSN'}) querySELECT_DB :: Cannot create RS: \[$thisQuery\]"; &logE
```

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1834 return %DB; 1835 }

```
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 $RS = undef;
8 $Conn = undef;
9 $Errors = undef;
0 @fieldNames = undef;
1 $PID = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(!$RS) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $thisQuery = "SELECT * FROM Email";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $Conn = new win32::OLE("ADODB.Connection");
$Conn->Open($DSN,"","");
my(@FILE) = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           my(SDSN, SLGDEBUG_FTN) = @_;
my(stabs) = @_{:}
                                      sub removeTabs {
                                                                                                                                                                                                                           $Conn->Close;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        while (!$RS->EOF) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for($i=0; $i < $RS->Fields->Count; $i++) { $fieldNames[$i] = $RS->Fields->Item($i)->Name; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        my $i = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FTN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $RS = $Conn->Execute($thisQuery);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 # Load data into recordset
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        # construct/open DSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ##print "** DSN = $DSN \n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sub read_DSNtoAOH {
                                                                                                                                                                                  return @FILE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $recCount = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $Errors = $Conn->Errors();
print "Errors:\n";
foreach $error (keys %Errors) {
    print $error->{Description}, "\n";
                                                                                                                                                                                                                                                                                  $RS->MoveNext; $recCount++; if ($recCount %
                                                                                                                                                                                                                                                                                                                                                                                                               for($i=0; $i < $RS ->Fields->Count; $i++) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $eventType = 'FAIL'; $eventDesc = "read_DSNToAOH::Cannot create RS: \[$thisQuery\]"; &logEvent(\*FH_log, $eventType, $eventDesc, $Guser, $LGDEBUG_
                                                                                                                                                                                                                                                                                                                                                                       $FILE[$recCount]{$fieldNames[$i]}= $RS->Fields->Item($i)->value;
                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                            ||
||
                                                                                                                                                                                                                                                                                      0) { print STDOUT "+"; }
```

tabs = s/t//g;

```
$LOCK_SH = 1;
$LOCK_EX = 2;
$LOCK_NB = 4;
$LOCK_UN = 8;
                                                                                                                                                                                                                                                                                                     my $record = undef;
my $header = undef;
my $key = undef;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     my $fileEmpty = 0;
if(-z $fH) {$fileEmpty =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               my($FH,$GfieldDelimiter,$logKey,$ptrHASHrecord,$RECORD_TYPE, $LGDEBUG_FTN) = @_;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             my($subject,$ptrHASHLAYOUT) = @_;
my(%LAYOUT) = %$ptrHASHLAYOUT;
my($thisMailingID) = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $space = " ";
$exit = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           %HASHrecord = %$ptrHASHrecord;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       flock($FH, $LOCK_EX);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # takes FH by ref; has _e_ feature for values
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sub writeRecord {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sub subjectSynonymnLookup {
                                                                                                                                                                                                                                              foreach $key(sort(keys(%HASHrecord))) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return $tabless
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return $thisMailingID
                                                                                                                                    if(fileEmpty) { key = s/[a-z]{1,2}_//; header = (uc(key).sfieldDelimiter); }
                                                                                                                                                                                           $value = $hashrecord{$key};
                                                                               if(value = /^e_(.{2,})$/) { value = eval($1);}
$record .= ($value.$GfieldDelimiter);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ## print "-- debug -- ATTEMPT MAILING ID RECOVERY... TOKEN= |$thisSubjectMailingIDToken|... RESULT MAILINGID= |$thisMailingID|\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(defined($LAYOUT{$thisSubjectmailingIDToken})) {    $thisMailingID = $LAYOUT{$thisSubjectmailingIDToken};  }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         $subject =~ /\s*([\=\*\+\-]{1,3})\s*/;
$thisSubjectMailingIDToken = $1;
```

chop(\$record);

remove last field delimiter